NC/QC/YD/W3/2020-21/IDP-C1

Date: 28-05-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements and Development of Parks in Ward No - 03 of Yelahanka New town Sub division).}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. G. Venkategowda, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	174 min	Shall not be less than 30 min
2	Final setting time	260 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.91 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.84 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.62 N/Sq mm	Shall not be less than 27 N/Sqmm

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NEWZEN CONSULTANT * BANGALORE *

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YD/W3/2020-21/IDP-PCC1

Date: 28-05-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements and Development of Parks in Ward No - 03 of Yelahanka New town Sub division).}

Ref.: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. G. Venkategowda, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	62.75	0 -20	30- 70
10mm	26.15	0 -5	10- 35
4.75mm	3.40	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.40	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	83.25	60-95	75-100	85-100	
01.18	75.05	30-70	55-90	75-100	
600.mic	51.10	15-34	35-59	60-79	
300.mic	20.75	5-20	8-30	12-40	
150.mic	7.80	0-10	0-10	0-10	

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EMAIL:newzen576@gmail.com

NC/QC/YD/W3/2020-21/IDP-C2

Date: 05-06-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements and Development of Parks in Ward No - 03 of Yelahanka New town Sub division).}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. G. Venkategowda, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	163 min	Shall not be less than 30 min
2	Final setting time	285 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.76 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.91 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	27.69 N/Sq mm	Shall not be less than 27 N/Sqmm

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YD/W3/2020-21/IDP-FA1 Date: 05-06-2020

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Improvements and Development of Parks in Ward No - 03 of Yelahanka New town Sub division).}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. G. Venkategowda, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	98.60	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	82.80	60-95	75-100	85-100	
01.18	71.35	30-70	55-90	75-100	
600. mic	54.95	15.34	35-59	60-79	
300.mic	26.10	5-20	8-30	12-40	
150.mic	7.45	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	15.91 %	-----
2	Silt Content	----	0.62 %	Not more than 8%
3	Specific Gravity	----	2.60	-------

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EMAIL:newzen576@gmail.com

NC/QC/YD/W3/2020-21/IDP-CA1 Date: 05-06-2020

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Improvements and Development of Parks in Ward No - 03 of Yelahanka New town Sub division).}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. G. Venkategowda, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.15	85-100	90 - 100
10 mm	49.60	0 - 20	25 - 55
4.75 mm	8.05	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS 383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	21.84 %	Not to exceed 25 %
2.	Crushing value	24.31 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YD/W3/2020-21/IDP-SSM1 Date: 08-06-2020

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.
{Project*: Improvements and Development of Parks in Ward No - 03 of Yelahanka New town Sub division).}

Ref.: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. G. Venkategowda, Bangalore.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	1361.00 Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	0.42 %	Not more than 2 0 %

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NC/QC/YD/W3/2020-21/IDP-SSM2 Date: 12-06-2020

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.
{Project*: Improvements and Development of Parks in Ward No - 03 of Yelahanka New town Sub division).}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. G. Venkategowda, Bangalore.
Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	1339.00 Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	0.44 %	Not more than 2.0 %

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NEWZEN CONSULTANT * BANGALORE *

NC/QC/YD/W3/2020-21/IDP-CB1a

Date: 28-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements and Development of Parks in Ward No - 03 of Yelahanka New town Sub division).}

Ref.: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. G. Venkategowda, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	30-06-20	28-07-20	28	22500	405	18.00	17.93
	002	"	"	"	"	395	17.56	
	003	"	"	"	"	410	18.22	

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YD/W3/2020-21/IDP-K1 Date: 20-07-2020

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements and Development of Parks in Ward No - 03 of Yelahanka New town Sub division).}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP, Bangalore
Name of the Agency/Contractor*: Sri. G. Venkategowda, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.38	23.45	23.22	As per Cl. 6.2.2 of IS 456-2000, fcr=0.7√ fck
2	002	3.35	22.95		
3	003	3.37	23.30		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.38	4.46
2	002	4.46	
3	003	4.55	

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com